

## ANALYTICAL SUMMARY REPORT

October 09, 2012

MT DEQ-Water Quality  
PO Box 200901  
Helena, MT 59620-0901

Workorder No.: H12090484 Quote ID: H665 - 2011 and 2012 TMDL

Project Name: TOB-HYLT-YAAK-2012

Energy Laboratories Inc Helena MT received the following 9 samples for MT DEQ-Water Quality on 9/27/2012 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
H12090484-001	U2548-W	09/25/12 15:35	09/27/12	Aqueous	Nitrogen, Nitrate + Nitrite Nitrogen, Total Persulfate Digestion, Total P Water Nitrogen, Total Persulfate Preparation for TSS Phosphorus, Total Solids, Total Suspended
H12090484-002	U2549-W	09/25/12 15:00	09/27/12	Aqueous	Same As Above
H12090484-003	U2293-W	09/24/12 10:30	09/27/12	Aqueous	Same As Above
H12090484-004	U2294-W	09/24/12 16:30	09/27/12	Aqueous	Same As Above
H12090484-005	U2295-W	09/25/12 8:00	09/27/12	Aqueous	Same As Above
H12090484-006	U2296-W	09/25/12 13:00	09/27/12	Aqueous	Same As Above
H12090484-007	U2297-W	09/25/12 15:30	09/27/12	Aqueous	Same As Above
H12090484-008	U2298-W	09/26/12 11:30	09/27/12	Aqueous	Same As Above
H12090484-009	U2299-W	09/26/12 9:00	09/27/12	Aqueous	Same As Above

The analyses presented in this report were performed by Energy Laboratories, Inc., 3161 E. Lyndale Ave., Helena, MT 59604, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:

## Work Order Sample Summary

**CLIENT:** MT DEQ-Water Quality  
**Project:** TOB-HYLT-YAAK-2012  
**Lab Order:** H12090484

**Report Date:**

Lab Sample ID	Client Sample ID	Collection Date	Date Received
H12090484-001	U2548-W	9/25/2012 3:35:00 PM	9/27/2012
H12090484-002	U2549-W	9/25/2012 3:00:00 PM	9/27/2012
H12090484-003	U2293-W	9/24/2012 10:30:00 AM	9/27/2012
H12090484-004	U2294-W	9/24/2012 4:30:00 PM	9/27/2012
H12090484-005	U2295-W	9/25/2012 8:00:00 AM	9/27/2012
H12090484-006	U2296-W	9/25/2012 1:00:00 PM	9/27/2012
H12090484-007	U2297-W	9/25/2012 3:30:00 PM	9/27/2012
H12090484-008	U2298-W	9/26/2012 11:30:00 AM	9/27/2012
H12090484-009	U2299-W	9/26/2012 9:00:00 AM	9/27/2012

## LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

**Client:** MT DEQ-Water Quality  
**Project:** TOB-HYLT-YAAK-2012  
**Lab ID:** H12090484-001  
**Client Sample ID** U2548-W

**Report Date:** 10/09/12  
**Collection Date:** 09/25/12 15:35  
**DateReceived:** 09/27/12  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>PHYSICAL PROPERTIES</b>							
Solids, Total Suspended TSS @ 105 C	ND	mg/L		4		A2540 D	09/28/12 09:40 / cmm
<b>NUTRIENTS</b>							
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.01		E353.2	10/02/12 11:29 / reh
Nitrogen, Total	ND	mg/L		0.05		A4500 N-C	10/03/12 13:50 / reh
Phosphorus, Total as P	0.051	mg/L		0.003		E365.1	10/03/12 14:44 / jaw

**Report Definitions:** RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.

## LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

**Client:** MT DEQ-Water Quality  
**Project:** TOB-HYLT-YAAK-2012  
**Lab ID:** H12090484-002  
**Client Sample ID** U2549-W

**Report Date:** 10/09/12  
**Collection Date:** 09/25/12 15:00  
**DateReceived:** 09/27/12  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>PHYSICAL PROPERTIES</b>							
Solids, Total Suspended TSS @ 105 C	ND	mg/L		4		A2540 D	09/28/12 09:40 / cmm
<b>NUTRIENTS</b>							
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.01		E353.2	10/02/12 11:32 / reh
Nitrogen, Total	ND	mg/L		0.05		A4500 N-C	10/03/12 13:54 / reh
Phosphorus, Total as P	ND	mg/L		0.003		E365.1	10/03/12 14:47 / jaw

**Report Definitions:** RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.

## LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

**Client:** MT DEQ-Water Quality  
**Project:** TOB-HYLT-YAAK-2012  
**Lab ID:** H12090484-003  
**Client Sample ID** U2293-W

**Report Date:** 10/09/12  
**Collection Date:** 09/24/12 10:30  
**DateReceived:** 09/27/12  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>PHYSICAL PROPERTIES</b>							
Solids, Total Suspended TSS @ 105 C	11	mg/L		4		A2540 D	09/28/12 09:41 / cmm
<b>NUTRIENTS</b>							
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.01		E353.2	10/02/12 11:33 / reh
Nitrogen, Total	0.18	mg/L		0.05		A4500 N-C	10/03/12 13:55 / reh
Phosphorus, Total as P	0.022	mg/L		0.003		E365.1	10/03/12 14:48 / jaw

**Report Definitions:** RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.

## LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

**Client:** MT DEQ-Water Quality  
**Project:** TOB-HYLT-YAAK-2012  
**Lab ID:** H12090484-004  
**Client Sample ID** U2294-W

**Report Date:** 10/09/12  
**Collection Date:** 09/24/12 16:30  
**DateReceived:** 09/27/12  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>PHYSICAL PROPERTIES</b>							
Solids, Total Suspended TSS @ 105 C	6	mg/L		4		A2540 D	09/28/12 09:41 / cmm
<b>NUTRIENTS</b>							
Nitrogen, Nitrate+Nitrite as N	0.19	mg/L		0.01		E353.2	10/02/12 11:35 / reh
Nitrogen, Total	0.27	mg/L		0.05		A4500 N-C	10/03/12 13:56 / reh
Phosphorus, Total as P	0.012	mg/L		0.003		E365.1	10/03/12 14:49 / jaw

**Report Definitions:** RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.

## LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

**Client:** MT DEQ-Water Quality  
**Project:** TOB-HYLT-YAAK-2012  
**Lab ID:** H12090484-005  
**Client Sample ID** U2295-W

**Report Date:** 10/09/12  
**Collection Date:** 09/25/12 08:00  
**DateReceived:** 09/27/12  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>PHYSICAL PROPERTIES</b>							
Solids, Total Suspended TSS @ 105 C	8	mg/L		4		A2540 D	09/28/12 09:42 / cmm
<b>NUTRIENTS</b>							
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.01		E353.2	10/02/12 11:36 / reh
Nitrogen, Total	ND	mg/L		0.05		A4500 N-C	10/03/12 13:57 / reh
Phosphorus, Total as P	0.046	mg/L		0.003		E365.1	10/03/12 14:50 / jaw

**Report Definitions:** RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.

## LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

**Client:** MT DEQ-Water Quality  
**Project:** TOB-HYLT-YAAK-2012  
**Lab ID:** H12090484-006  
**Client Sample ID** U2296-W

**Report Date:** 10/09/12  
**Collection Date:** 09/25/12 13:00  
**DateReceived:** 09/27/12  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>PHYSICAL PROPERTIES</b>							
Solids, Total Suspended TSS @ 105 C	ND	mg/L		4		A2540 D	09/28/12 09:43 / cmm
<b>NUTRIENTS</b>							
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.01		E353.2	10/02/12 11:37 / reh
Nitrogen, Total	ND	mg/L		0.05		A4500 N-C	10/03/12 13:58 / reh
Phosphorus, Total as P	0.055	mg/L		0.003		E365.1	10/03/12 14:51 / jaw

**Report Definitions:** RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.

## LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

**Client:** MT DEQ-Water Quality  
**Project:** TOB-HYLT-YAAK-2012  
**Lab ID:** H12090484-007  
**Client Sample ID** U2297-W

**Report Date:** 10/09/12  
**Collection Date:** 09/25/12 15:30  
**DateReceived:** 09/27/12  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>PHYSICAL PROPERTIES</b>							
Solids, Total Suspended TSS @ 105 C	ND	mg/L		4		A2540 D	09/28/12 09:43 / cmm
<b>NUTRIENTS</b>							
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.01		E353.2	10/02/12 11:38 / reh
Nitrogen, Total	0.06	mg/L		0.05		A4500 N-C	10/03/12 14:37 / reh
Phosphorus, Total as P	0.051	mg/L		0.003		E365.1	10/03/12 14:52 / jaw

**Report Definitions:** RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



## LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

**Client:** MT DEQ-Water Quality  
**Project:** TOB-HYLT-YAAK-2012  
**Lab ID:** H12090484-008  
**Client Sample ID** U2298-W

**Report Date:** 10/09/12  
**Collection Date:** 09/26/12 11:30  
**DateReceived:** 09/27/12  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>PHYSICAL PROPERTIES</b>							
Solids, Total Suspended TSS @ 105 C	ND	mg/L		4		A2540 D	09/28/12 09:43 / cmm
<b>NUTRIENTS</b>							
Nitrogen, Nitrate+Nitrite as N	0.02	mg/L		0.01		E353.2	10/02/12 11:39 / reh
Nitrogen, Total	ND	mg/L		0.05		A4500 N-C	10/03/12 14:40 / reh
Phosphorus, Total as P	0.049	mg/L		0.003		E365.1	10/03/12 14:53 / jaw

**Report**  
**Definitions:** RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.

## LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

**Client:** MT DEQ-Water Quality  
**Project:** TOB-HYLT-YAAK-2012  
**Lab ID:** H12090484-009  
**Client Sample ID** U2299-W

**Report Date:** 10/09/12  
**Collection Date:** 09/26/12 09:00  
**DateReceived:** 09/27/12  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>PHYSICAL PROPERTIES</b>							
Solids, Total Suspended TSS @ 105 C	ND	mg/L		4		A2540 D	09/28/12 09:43 / cmm
<b>NUTRIENTS</b>							
Nitrogen, Nitrate+Nitrite as N	0.04	mg/L		0.01		E353.2	10/02/12 11:41 / reh
Nitrogen, Total	ND	mg/L		0.05		A4500 N-C	10/03/12 14:42 / reh
Phosphorus, Total as P	0.048	mg/L		0.003		E365.1	10/03/12 14:54 / jaw

**Report Definitions:** RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.

## QA/QC Summary Report

Prepared by Helena, MT Branch

**Client:** MT DEQ-Water Quality

**Report Date:** 10/09/12

**Project:** TOB-HYLT-YAAK-2012

**Work Order:** H12090484

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: A2540 D</b>										Batch: 18182
<b>Sample ID: MB-18182</b>										
		Method Blank								
Solids, Total Suspended TSS @ 105 C		ND	mg/L	2				Run: ACCU-124 (14410200)_120928		09/28/12 09:37
<b>Sample ID: LCS-18182</b>										
		Laboratory Control Sample								
Solids, Total Suspended TSS @ 105 C		2000	mg/L	10	100	70	130	Run: ACCU-124 (14410200)_120928		09/28/12 09:37
<b>Sample ID: H12090484-003ADUP</b>										
		Sample Duplicate								
Solids, Total Suspended TSS @ 105 C		12.0	mg/L	10				Run: ACCU-124 (14410200)_120928		09/28/12 09:41
								8.7	5	R

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

R - RPD exceeds advisory limit.

## QA/QC Summary Report

Prepared by Helena, MT Branch

**Client:** MT DEQ-Water Quality  
**Project:** TOB-HYLT-YAAK-2012

**Report Date:** 10/09/12  
**Work Order:** H12090484

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500 N-C								Analytical Run: FIA203-HE_121003A		
Sample ID: ICV	Initial Calibration Verification Standard									
Nitrogen, Total		1.02	mg/L	0.10	102	90	110			10/03/12 14:30
Sample ID: CCV	Continuing Calibration Verification Standard									
Nitrogen, Total		0.484	mg/L	0.10	97	90	110			10/03/12 14:32
Sample ID: ICB	Initial Calibration Blank, Instrument Blank									
Nitrogen, Total		0.0110	mg/L	0.10		0	0			10/03/12 14:33
Method: A4500 N-C								Batch: 18246		
Sample ID: MB-18246	Method Blank									
Nitrogen, Total		ND	mg/L	0.03			Run: FIA203-HE_121003A			10/03/12 14:34
Sample ID: LCS-18246	Laboratory Control Sample									
Nitrogen, Total		22.4	mg/L	0.20	99	90	110	Run: FIA203-HE_121003A		10/03/12 14:36
Sample ID: H12090484-007BMS	Sample Matrix Spike									
Nitrogen, Total		0.986	mg/L	0.10	93	90	110	Run: FIA203-HE_121003A		10/03/12 14:38
Sample ID: H12090484-007BMSD	Sample Matrix Spike Duplicate									
Nitrogen, Total		0.989	mg/L	0.10	93	90	110	0.3	20	10/03/12 14:39
Method: A4500 N-C								Analytical Run: FIA203-HE_121003B		
Sample ID: ICV	Initial Calibration Verification Standard									
Nitrogen, Total		1.02	mg/L	0.10	102	90	110			10/03/12 11:22
Sample ID: ICB	Initial Calibration Blank, Instrument Blank									
Nitrogen, Total		0.00398	mg/L	0.10		0	0			10/03/12 11:25
Sample ID: CCV	Continuing Calibration Verification Standard									
Nitrogen, Total		0.456	mg/L	0.10	91	90	110			10/03/12 13:43
Sample ID: CCV	Continuing Calibration Verification Standard									
Nitrogen, Total		0.452	mg/L	0.10	90	90	110			10/03/12 14:01
Method: A4500 N-C								Batch: 18246		
Sample ID: MB-18246	Method Blank									
Nitrogen, Total		ND	mg/L	0.03			Run: FIA203-HE_121003B			10/03/12 13:40
Sample ID: LCS-18246	Laboratory Control Sample									
Nitrogen, Total		21.2	mg/L	0.20	94	90	110	Run: FIA203-HE_121003B		10/03/12 13:44
Sample ID: H12090484-001BMS	Sample Matrix Spike									
Nitrogen, Total		0.925	mg/L	0.10	92	90	110	Run: FIA203-HE_121003B		10/03/12 13:51
Sample ID: H12090484-001BMSD	Sample Matrix Spike Duplicate									
Nitrogen, Total		0.927	mg/L	0.10	93	90	110	0.3	20	10/03/12 13:52

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

## QA/QC Summary Report

Prepared by Helena, MT Branch

**Client:** MT DEQ-Water Quality

**Report Date:** 10/09/12

**Project:** TOB-HYLT-YAAK-2012

**Work Order:** H12090484

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E353.2								Analytical Run: FIA203-HE_121002A			
Sample ID: ICV	Initial Calibration Verification Standard										10/02/12 10:13
Nitrogen, Nitrate+Nitrite as N		1.03	mg/L	0.010	103	90	110				
Sample ID: ICB	Initial Calibration Blank, Instrument Blank										10/02/12 10:18
Nitrogen, Nitrate+Nitrite as N		-0.0137	mg/L	0.010		0	0				
Sample ID: CCV	Continuing Calibration Verification Standard										10/02/12 11:27
Nitrogen, Nitrate+Nitrite as N		0.483	mg/L	0.010	97	90	110				
Method: E353.2								Batch: R83361			
Sample ID: LFB	Laboratory Fortified Blank										10/02/12 10:14
Nitrogen, Nitrate+Nitrite as N		0.956	mg/L	0.010	96	90	110				
Sample ID: MBLK	Method Blank										10/02/12 10:19
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.002							
Sample ID: H12090484-001CMS	Sample Matrix Spike										10/02/12 11:30
Nitrogen, Nitrate+Nitrite as N		0.961	mg/L	0.010	96	90	110				
Sample ID: H12090484-001CMSD	Sample Matrix Spike Duplicate										10/02/12 11:31
Nitrogen, Nitrate+Nitrite as N		0.961	mg/L	0.010	96	90	110	0.0	20		
Sample ID: H12090490-001BMS	Sample Matrix Spike										10/02/12 11:48
Nitrogen, Nitrate+Nitrite as N		0.971	mg/L	0.010	97	90	110				
Sample ID: H12090490-001BMSD	Sample Matrix Spike Duplicate										10/02/12 11:49
Nitrogen, Nitrate+Nitrite as N		0.981	mg/L	0.010	98	90	110	1.1	20		

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

## QA/QC Summary Report

Prepared by Helena, MT Branch

**Client:** MT DEQ-Water Quality

**Report Date:** 10/09/12

**Project:** TOB-HYLT-YAAK-2012

**Work Order:** H12090484

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E365.1								Analytical Run: FIA202-HE_121003C			
Sample ID: ICV	Initial Calibration Verification Standard										10/03/12 14:17
Phosphorus, Total as P		0.233	mg/L	0.010	93	90	110				
Sample ID: ICB	Initial Calibration Blank, Instrument Blank										10/03/12 14:22
Phosphorus, Total as P		0.000670	mg/L	0.010		0	0				
Sample ID: CCV	Continuing Calibration Verification Standard										10/03/12 14:42
Phosphorus, Total as P		0.240	mg/L	0.010	96	90	110				
Method: E365.1								Batch: 18239			
Sample ID: LCS-18239	Laboratory Control Sample										10/03/12 14:18
Phosphorus, Total as P		41.4	mg/L	0.10	99	90	110				
Sample ID: MB-18239	Method Blank										10/03/12 14:24
Phosphorus, Total as P		ND	mg/L	0.0009							
Sample ID: H12090484-001CMS	Sample Matrix Spike										10/03/12 14:45
Phosphorus, Total as P		0.246	mg/L	0.010	97	90	110				
Sample ID: H12090484-001CMSD	Sample Matrix Spike Duplicate										10/03/12 14:46
Phosphorus, Total as P		0.250	mg/L	0.010	99	90	110	1.4	20		

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

# Standard Reporting Procedures

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

## Workorder Receipt Checklist

MT DEQ-Water Quality

H12090484

Login completed by: Wanda Johnson

Date Received: 9/27/2012

Reviewed by: BL2000\kwiegand

Received by: TLL

Reviewed Date: 10/1/2012

Carrier Hand Del  
name:

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temp Blank received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input type="checkbox"/>
Container/Temp Blank temperature:	0.6°C On Ice		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input type="checkbox"/>

Contact and Corrective Action Comments:

No times on sample containers. Client provided temperature blank. No Chlorophyll, Algae or Macroinvertebrate samples received Wj 9/27/12

U2548-\_\_

## Site Visit Form

(One Station per page)

Project ID: TOB-HYLT-YAAK-2012

H12090484-001

Date: 9/25/12 Time: 15:35 Personnel: J. Dunn, M. Johnson  
 Waterbody: Hyalite Creek HY08-staphan Location: West Fk Hyalite Cr inlet  
 Station ID: \_\_\_\_\_ Visit #: 3 HUC: 1002008 County: Gallatin  
 Latitude: 45.4522 Longitude: -110.9594 Lat/Long Verified? ☐ By: \_\_\_\_\_  
 Elevation: 6882 (ft) m Geo Method: GPS Other: \_\_\_\_\_ Datum: NAD27 NAD83 WGS84

Samples Collected:	Sample ID:	Sample Collection Information/Preservation:
Water <input checked="" type="checkbox"/>	<u>U2548-W</u>	<u>GRAB</u> EWI
Analysis: <u>TPN, TSS</u>		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL <u>Ice</u> Frozen <u>None</u>
Analysis: <u>TP, NO<sub>2</sub>+NO<sub>3</sub></u>		Preserved: HNO <sub>3</sub> <u>H<sub>2</sub>SO<sub>4</sub></u> H <sub>3</sub> PO <sub>4</sub> HCL <u>Ice</u> Frozen <u>None</u>
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen <u>None</u>
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen <u>None</u>
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen <u>None</u>
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen <u>None</u>
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen <u>None</u>
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen <u>None</u>
Sediment <input type="checkbox"/>		SED-1
Analysis:		Preserved: <u>None</u> Other:
Benthic Chl-a <input type="checkbox"/>	<u>Visual est 450mg/m<sup>2</sup></u>	Sample Method: C=Core H=Hoop T=Template N=None
Composite at Lab <input type="checkbox"/>	Ash-Free Dry Weight <input type="checkbox"/>	Sample Location: R=Right C=Center L=Left
Transect: A - B - C - D - E - F - G - H - I - J - K -		
Phytoplankton Chl-a <input type="checkbox"/>		D1 Filtered: _____ mL D2 Filtered: _____ mL
Phytoplankton CNP <input type="checkbox"/>		D1 Filtered: _____ mL D2 Filtered: _____ mL
Algae <input type="checkbox"/>		PERI-1-MOD PERI-1 OTHER:
Macroinvertebrates <input type="checkbox"/>		MAC-R-500 HESS # of Jars:

Field Measurements:	Time: <u>15:35</u> am <u>pm</u>	Field Assessments:
Water Temp: <u>7.61</u> °C °F	Air Temp: <u>~65</u> °C °F	Field Forms: Fish Cover Form <input type="checkbox"/> Photographs <input checked="" type="checkbox"/>
Bar. Pressure: <u>592.8</u> mm/Hg	SC: <u>.035</u> uS/cm	Aquatic Plant Tracking Form <input type="checkbox"/> Rosgen Form <input type="checkbox"/>
pH: <u>7.61</u> DO: <u>8.74</u> mg/L	Turbidity: _____ NTU	NRCS Form <input type="checkbox"/> EMAP Forms <input type="checkbox"/> Summary Form <input type="checkbox"/>
Turbidity: Clear <input checked="" type="checkbox"/> Slight <input type="checkbox"/> Turbid <input type="checkbox"/> Opaque <input type="checkbox"/>		Channel Cross-Section <input type="checkbox"/> Total Discharge <input checked="" type="checkbox"/>
Flow: _____ cfs (Dry Bed <input type="checkbox"/> No Measurable Flow <input type="checkbox"/> )		Data Loggers: Temp <input type="checkbox"/> YSI <input type="checkbox"/> TruTrack <input type="checkbox"/> DOT <input type="checkbox"/>
Meter <input checked="" type="checkbox"/> Doppler <input type="checkbox"/> Float <input type="checkbox"/> Gage <input type="checkbox"/> Visual Est. <input type="checkbox"/>		AquaRods <input type="checkbox"/> Weather Station <input type="checkbox"/> Surveyor <input type="checkbox"/>

Comments: Only Transect F ☐ Total Site Length \_\_\_\_\_ m Average Wetted Width \_\_\_\_\_ m Transect Length \_\_\_\_\_ m

73.2% DO Duplicate sample to U2297a

Chemistry Lab Information:		
Lab Samples Submitted to: Energy Lab	Account #: H704	Term Contract Number: n/a
Invoice Contact: Atkins / Gary Ingman / 820 N Montana Ave / 406-437-9244		
Contact Name & Phone: Darrin Kron / 406-444-4765	EDD <input checked="" type="checkbox"/> Format: MT-eWQX Compatible	
1) Relinquished By & Date/Time: <u>John A. ... 9/26/12 15:30</u>	1) Shipped By: Hand <input type="checkbox"/> FedEx/UPS <input type="checkbox"/> USPS <input type="checkbox"/>	1) Received By & Date/Time: <u>Shy ... 9/27/12 15:30</u>
2) Relinquished By & Date/Time: <u>Shy B ... 9/27/12 16:10</u>	2) Shipped By: Hand <input checked="" type="checkbox"/> FedEx/UPS <input type="checkbox"/> USPS <input type="checkbox"/>	2) Received By & Date/Time: <u>Lacey ... 9/27/12 16:10</u>

Lab Use Only - Delivery Temperature: Wet Ice 0.6 °C Dry Ice \_\_\_\_\_ °C

Rev. 5/8/2012

U2549-\_\_

## Site Visit Form

(One Station per page)

Project ID: TOB-HYLT-YAAK-2012

H12090484.002

Date: 9/25/12 Time: 15:00 Personnel: J. Dunn, M. Johnson  
 Waterbody: Hyalite Creek H408-blank Location: West FK Hyalite Cu inlet  
 Station ID: \_\_\_\_\_ Visit #: 3 HUC: 10020008 County: Gallatin  
 Latitude: 45.4522 Longitude: -110.9594 Lat/Long Verified? ☐ By: \_\_\_\_\_  
 Elevation: 6082 (ft) m Geo Method: GPS Other: \_\_\_\_\_ Datum: NAD27 NAD83 WGS84

Samples Collected:	Sample ID:	Sample Collection Information/Preservation:
Water <input checked="" type="checkbox"/>	<u>U2549-W</u>	<u>GRAB</u> <u>EWI</u>
Analysis: <u>TPN, TSS</u>		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL <u>Ice</u> Frozen <u>None</u>
Analysis: <u>TP, NO<sub>2</sub>+NO<sub>3</sub></u>		Preserved: HNO <sub>3</sub> <u>H<sub>2</sub>SO<sub>4</sub></u> H <sub>3</sub> PO <sub>4</sub> HCL <u>Ice</u> Frozen <u>None</u>
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen <u>None</u>
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen <u>None</u>
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen <u>None</u>
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen <u>None</u>
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen <u>None</u>
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen <u>None</u>
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen <u>None</u>
Sediment <input type="checkbox"/>		SED-1
Analysis:		Preserved: None Other:
Benthic Chl-a <input type="checkbox"/>		Sample Method: C=Core H=Hoop T=Template N=None
Composite at Lab <input type="checkbox"/> Ash-Free Dry Weight <input type="checkbox"/>		Sample Location: R=Right C=Center L=Left
Transect: A - B - C - D - E - F - G - H - I - J - K -		
Phytoplankton Chl-a <input type="checkbox"/>		D1 Filtered: _____ mL D2 Filtered: _____ mL
Phytoplankton CNP <input type="checkbox"/>		D1 Filtered: _____ mL D2 Filtered: _____ mL
Algae <input type="checkbox"/>		PERI-1-MOD PERI-1 OTHER:
Macroinvertebrates <input type="checkbox"/>		MAC-R-500 HESS # of Jars:

Field Measurements:	Time:	am pm	Field Assessments:
Water Temp: _____ °C °F	Air Temp: _____ °C °F		Field Forms: Fish Cover Form <input type="checkbox"/> Photographs <input type="checkbox"/>
Bar. Pressure: _____ mm/Hg	SC: _____ uS/cm		Aquatic Plant Tracking Form <input type="checkbox"/> Rosgen Form <input type="checkbox"/>
pH: _____ DO: _____ mg/L	Turbidity: _____ NTU		NRCS Form <input type="checkbox"/> EMAP Forms <input type="checkbox"/> Summary Form <input type="checkbox"/>
Turbidity: Clear <input type="checkbox"/> Slight <input type="checkbox"/> Turbid <input type="checkbox"/> Opaque <input type="checkbox"/>			Channel Cross-Section <input type="checkbox"/> Total Discharge <input type="checkbox"/>
Flow: _____ cfs (Dry Bed <input type="checkbox"/> No Measurable Flow <input type="checkbox"/> )			Data Loggers: Temp <input type="checkbox"/> YSI <input type="checkbox"/> TruTrack <input type="checkbox"/> DOT <input type="checkbox"/>
Meter <input type="checkbox"/> Doppler <input type="checkbox"/> Float <input type="checkbox"/> Gage <input type="checkbox"/> Visual Est. <input type="checkbox"/>			AquaRods <input type="checkbox"/> Weather Station <input type="checkbox"/> Surveyor <input type="checkbox"/>

Comments: Only Transect F ☐ Total Site Length \_\_\_\_\_ m Average Wetted Width \_\_\_\_\_ m Transect Length \_\_\_\_\_ m

Field Blank

Chemistry Lab Information:		
Lab Samples Submitted to: Energy Lab	Account #: H704	Term Contract Number: n/a
Invoice Contact: Atkins / Gary Ingman / 820 N Montana Ave / 406-437-9244		
Contact Name & Phone: Darrin Kron / 406-444-4765		EDD <input checked="" type="checkbox"/> Format: MT-eWQX Compatible
1) Relinquished By & Date/Time: <u>J. Dunn</u> <u>9/26/12</u> <u>15:30</u>	1) Shipped By: Hand <input type="checkbox"/> FedEx/UPS <input type="checkbox"/> USPS <input type="checkbox"/>	1) Received By & Date/Time: <u>Stu B</u> <u>9/27/12</u> <u>15:30</u>
2) Relinquished By & Date/Time: <u>Stu B</u> <u>9/27/12</u> <u>16:00</u>	2) Shipped By: Hand <input checked="" type="checkbox"/> FedEx/UPS <input type="checkbox"/> USPS <input type="checkbox"/>	2) Received By & Date/Time: <u>Vaay Xwael</u> <u>9/27/12</u> <u>16:10</u>
Lab Use Only - Delivery Temperature: Wet Ice <u>0.6</u> °C Dry Ice _____ °C		

Rev. 5/8/2012

U2293 -

## Site Visit Form

(One Station per page)

Project ID: TOB-HYLT-YAAK-2012

H12090484-603

Date: 9/24/12 Time: 10:30 Personnel: J. Dunn, M. Johnson  
 Waterbody: Hyalite Creek HY01 Location: @ confluence with East Gallatin River  
 Station ID: Visit #: 2 HUC: 10020008 County: Gallatin  
 Latitude: 45.79126 Longitude: -111.12822 Lat/Long Verified? ☐ By:  
 Elevation: 4430 ft m Geo Method: GPS Other: Datum: NAD27 NAD83 WGS84

Samples Collected:	Sample ID:	Sample Collection Information/Preservation:
Water <input checked="" type="checkbox"/>	U2293-W	GRAB EWI
Analysis: TPN, TSS		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL <input checked="" type="checkbox"/> Ice Frozen <input checked="" type="checkbox"/> None
Analysis: TP, NO <sub>2</sub> + NO <sub>3</sub>		Preserved: HNO <sub>3</sub> <input checked="" type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL <input checked="" type="checkbox"/> Ice Frozen None
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen None
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen None
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen None
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen None
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen None
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen None
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen None
Sediment <input type="checkbox"/>		SED-1
Analysis:		Preserved: None Other:
Benthic Chl-a <input checked="" type="checkbox"/>	U2293-C	Sample Method: C=Core H=Hoop T=Template N=None
Composite at Lab <input checked="" type="checkbox"/> Ash-Free Dry Weight <input checked="" type="checkbox"/>		Sample Location: R=Right C=Center L=Left
Transect: AT-R BT-L CT-C DT-R ET-L FT-C GT-R H-L I-C J-R K-L		
Phytoplankton Chl-a <input type="checkbox"/>		D1 Filtered: mL D2 Filtered: mL
Phytoplankton CNP <input type="checkbox"/>		D1 Filtered: mL D2 Filtered: mL
Algae <input checked="" type="checkbox"/>	U2293-P	PERI-1-MOD PERI-1 OTHER:
Macroinvertebrates <input checked="" type="checkbox"/>	U2293-M	MAC-R-500 IIESS # of Jars:

Field Measurements:	Time: 10:30 am pm	Field Assessments:
Water Temp: 11.7 °C °F	Air Temp: 69 °C °F	Field Forms: Fish Cover Form <input type="checkbox"/> Photographs <input checked="" type="checkbox"/>
Bar. Pressure: 649.4 mm/Hg	SC: 0.345 uS/cm	Aquatic Plant Tracking Form <input checked="" type="checkbox"/> Rosgen Form <input type="checkbox"/>
pH: 8.35 DO: 11.15 mg/L	Turbidity: NTU	NRCS Form <input type="checkbox"/> EMAP Forms <input checked="" type="checkbox"/> Summary Form <input type="checkbox"/>
Turbidity: Clear <input type="checkbox"/> Slight <input checked="" type="checkbox"/> Turbid <input type="checkbox"/> Opaque <input type="checkbox"/>		Channel Cross-Section <input type="checkbox"/> Total Discharge <input checked="" type="checkbox"/>
Flow: cfs (Dry Bed <input type="checkbox"/> No Measurable Flow <input type="checkbox"/> )		Data Loggers: Temp <input type="checkbox"/> YSI <input type="checkbox"/> TruTrack <input type="checkbox"/> DOT <input type="checkbox"/>
Meter <input checked="" type="checkbox"/> Doppler <input type="checkbox"/> Float <input type="checkbox"/> Gage <input type="checkbox"/> Visual Est. <input type="checkbox"/>		AquaRods <input type="checkbox"/> Weather Station <input type="checkbox"/> Surveyor <input type="checkbox"/>

Comments: Only Transect F ☐ Total Site Length 107' Average Wetted Width 25' Transect Length 103'   
 template = 12.5 cm<sup>2</sup> width = 26, 28.5, 22, 21.5, 18.0 → 23.2 ~ 25' wetted width  
 macros + periphyton to 2.5' above DO = 103.6% 100' transect 100' spacing

Chemistry Lab Information:		
Lab Samples Submitted to: Energy Lab	Account #: H704	Term Contract Number: n/a
Invoice Contact: Atkins / Gary Ingman / 820 N Montana Ave / 406-437-9244		project: 100023347 task 9
Contact Name & Phone: Darrin Kron / 406-444-4765		EDD <input checked="" type="checkbox"/> Format: MT-eWQX Compatible
1) Relinquished By & Date/Time: J. Dunn 9/26/12 15:30	1) Shipped By: Hand <input type="checkbox"/> FedEx/UPS <input checked="" type="checkbox"/> USPS <input type="checkbox"/>	1) Received By & Date/Time: J. Dunn 9/27/12 15:30
2) Relinquished By & Date/Time: J. Dunn 9/27/12 16:10	2) Shipped By: Hand <input checked="" type="checkbox"/> FedEx/UPS <input type="checkbox"/> USPS <input type="checkbox"/>	2) Received By & Date/Time: J. Dunn 9/27/12 16:10
Lab Use Only - Delivery Temperature: Wet Ice 0.6 °C Dry Ice _____ °C		

Rev. 5/8/2012

U2294 -

## Site Visit Form

(One Station per page)

Project ID: TOB-HYLT-YAAK-2012

H12696484-064

Date: 9/24/12 Time: 16:30 Personnel: J. Dunn, M. Johnson  
 Waterbody: Hyalite Creek HY02 Location: @ 2nd crossing on Montan School Rd.  
 Station ID: Visit #: 2 HUC: 10020008 County: Gallatin  
 Latitude: 45.68599 Longitude: -111.17019 Lat/Long Verified? ☐ By:  
 Elevation: 4829 ft m Geo Method: GPS Other: Datum: NAD27 NAD83 WGS84

Samples Collected:	Sample ID:	Sample Collection Information/Preservation:
Water	<input checked="" type="checkbox"/> U2294-W	GRAB EWI
Analysis: TPN, TSS		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL <input checked="" type="checkbox"/> Ice Frozen <input checked="" type="checkbox"/> None
Analysis: TP, NO <sub>2</sub> + NO <sub>3</sub>		Preserved: HNO <sub>3</sub> <input checked="" type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL <input checked="" type="checkbox"/> Ice Frozen None
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen None
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen None
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen None
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen None
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen None
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen None
Sediment	<input type="checkbox"/>	SED-1
Analysis:		Preserved: None Other:
Benthic Chl-a	<input checked="" type="checkbox"/> U2294-C	Sample Method: C=Core H=Hoop T=Template N=None
Composite at Lab <input checked="" type="checkbox"/> Ash-Free Dry Weight <input checked="" type="checkbox"/>		Sample Location: R=Right C=Center L=Left
Transect: A-T-R B-T-L C-T-C D-T-R E-T-L F-T-L G-T-R H-T-L I-T-C J-T-R K-T-L		
Phytoplankton Chl-a	<input type="checkbox"/>	D1 Filtered: mL D2 Filtered: mL
Phytoplankton CNP	<input type="checkbox"/>	D1 Filtered: mL D2 Filtered: mL
Algae	<input checked="" type="checkbox"/> U2294-P	PERI-T-MOD PERI-1 OTHER:
Macroinvertebrates	<input checked="" type="checkbox"/> U2294-M	MAC-R-500 HESS # of Jars:

Field Measurements:	Time: 16:30 am pm	Field Assessments:
Water Temp: 14.21 °C °F	Air Temp: ~80 °C °F	Field Forms: Fish Cover Form <input type="checkbox"/> Photographs <input checked="" type="checkbox"/> Pond 12/1
Bar. Pressure: 638.8 mm/Hg	SC: .310 uS/cm	Aquatic Plant Tracking Form <input checked="" type="checkbox"/> Rosgen Form <input type="checkbox"/>
pH: 8.98 DO: 9.43 mg/L	Turbidity: NTU	NRCS Form <input type="checkbox"/> EMAP Forms <input checked="" type="checkbox"/> Summary Form <input type="checkbox"/>
Turbidity: Clear <input checked="" type="checkbox"/> Slight <input type="checkbox"/> Turbid <input type="checkbox"/> Opaque <input type="checkbox"/>		Channel Cross-Section <input type="checkbox"/> Total Discharge <input checked="" type="checkbox"/>
Flow: cfs (Dry Bed <input type="checkbox"/> No Measurable Flow <input type="checkbox"/> )		Data Loggers: Temp <input type="checkbox"/> YSI <input type="checkbox"/> TruTrack <input type="checkbox"/> DOT <input type="checkbox"/>
Meter <input checked="" type="checkbox"/> Doppler <input type="checkbox"/> Float <input type="checkbox"/> Gage <input type="checkbox"/> Visual Est. <input type="checkbox"/>		AquaRods <input type="checkbox"/> Weather Station <input type="checkbox"/> Surveyor <input type="checkbox"/>

Comments: Only Transect F ☐ Total Site Length 800' m Average Wetted Width 20' m Transect Length 80' m  
 92.0% DO Wetted width 10, 14, 16, 22, 18 = 17.6 ~ 20' template 12.5cm<sup>2</sup>  
 E site: 45.68497 -111.17051

Chemistry Lab Information:		
Lab Samples Submitted to: Energy Lab	Account #: H704	Term Contract Number: n/a
Invoice Contact: Atkins / Gary Ingman / 820 N Montana Ave / 406-437-9244 project: 100023347 task 9		
Contact Name & Phone: Darrin Kron / 406-444-4765		EDD <input checked="" type="checkbox"/> Format: MT-eWQX Compatible
1) Relinquished By & Date/Time: J. Dunn 9/27/12 15:30	1) Shipped By: Hand <input type="checkbox"/> FedEx/UPS <input checked="" type="checkbox"/> USPS <input type="checkbox"/>	1) Received By & Date/Time: J. Dunn 9/27/12 15:30
2) Relinquished By & Date/Time: J. Dunn 9/27/12 16:10	2) Shipped By: Hand <input checked="" type="checkbox"/> FedEx/UPS <input type="checkbox"/> USPS <input type="checkbox"/>	2) Received By & Date/Time: J. Dunn 9/27/12 16:10

ab Use Only - Delivery Temperature: Wet Ice 0.6 °C Dry Ice \_\_\_\_\_ °C

Rev. 5/8/2012

U2295 -

## Site Visit Form

(One Station per page)

Project ID: TOB-HYLT-YAAK-2012

H12090484-005

Date: 9/25/12 Time: 8:00 Personnel: J. Dunn, M. Johnson  
 Waterbody: Hyalite Creek M05HYLTC03 Location: 1/4 mile above lower NF boundary  
 Station ID: \_\_\_\_\_ Visit #: 2 HUC: 10020008 County: Gallatin  
 Latitude: 45.56971 Longitude: -111.07353 Lat/Long Verified? ☐ By: \_\_\_\_\_  
 Elevation: 5522 (ft) m Geo Method: GPS Other: \_\_\_\_\_ Datum: NAD27 (NAD83) WGS84

Samples Collected:	Sample ID:	Sample Collection Information/Preservation:
Water <input checked="" type="checkbox"/>	<u>U2295 - W</u>	<u>GRAB</u> EWI
Analysis: <u>TPN, TSS</u>		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL <u>(Ice)</u> Frozen <u>(None)</u>
Analysis: <u>TP, NO<sub>2</sub>+NO<sub>3</sub></u>		Preserved: HNO <sub>3</sub> <u>(H<sub>2</sub>SO<sub>4</sub>)</u> H <sub>3</sub> PO <sub>4</sub> HCL <u>(Ice)</u> Frozen None
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen None
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen None
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen None
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen None
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen None
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen None
Sediment <input type="checkbox"/>		SED-1
Analysis:		Preserved: None Other:
Benthic Chl-a <input type="checkbox"/>	<u>visual estimate &lt; 50mg/m<sup>2</sup></u>	Sample Method: C=Core H=Hoop T=Template N=None
Composite at Lab <input type="checkbox"/>	Ash-Free Dry Weight <input type="checkbox"/>	Sample Location: R=Right C=Center L=Left
Transect: A - B - C - D - E - F - G - H - I - J - K -		
Phytoplankton Chl-a <input type="checkbox"/>		D1 Filtered: _____ mL D2 Filtered: _____ mL
Phytoplankton CNP <input type="checkbox"/>		D1 Filtered: _____ mL D2 Filtered: _____ mL
Algae <input checked="" type="checkbox"/>	<u>U2295 - P</u>	<u>PERI-1-MOD</u> PERI-1 OTHER:
Macroinvertebrates <input checked="" type="checkbox"/>	<u>U2295 - M</u>	<u>MAC-R-500</u> HESS # of Jars:

Field Measurements:	Time: <u>8:00</u> <u>(am)</u> pm	Field Assessments:
Water Temp: <u>9.76</u> <u>(C)</u> °F	Air Temp: <u>~55</u> °C <u>(F)</u>	Field Forms: Fish Cover Form <input type="checkbox"/> Photographs <input checked="" type="checkbox"/>
Bar. Pressure: <u>623.2</u> mm/Hg	SC: <u>107</u> uS/cm	Aquatic Plant Tracking Form <input type="checkbox"/> Rosgen Form <input type="checkbox"/>
pH: <u>8.16</u> DO: <u>9.05</u> mg/L	Turbidity: _____ NTU	NRCS Form <input type="checkbox"/> EMAP Forms <input type="checkbox"/> Summary Form <input type="checkbox"/>
Turbidity: Clear <input checked="" type="checkbox"/> Slight <input type="checkbox"/> Turbid <input type="checkbox"/> Opaque <input type="checkbox"/>		Channel Cross-Section <input type="checkbox"/> Total Discharge <input checked="" type="checkbox"/>
Flow: _____ cfs (Dry Bed <input type="checkbox"/> No Measurable Flow <input type="checkbox"/> )		Data Loggers: Temp <input type="checkbox"/> YSI <input type="checkbox"/> TruTrack <input type="checkbox"/> DOT <input type="checkbox"/>
Meter <input checked="" type="checkbox"/> Doppler <input type="checkbox"/> Float <input type="checkbox"/> Gage <input type="checkbox"/> Visual Est. <input type="checkbox"/>		AquaRods <input type="checkbox"/> Weather Station <input type="checkbox"/> Surveyor <input type="checkbox"/>

Comments: Only Transect F ☐ Total Site Length 150' m Average Wetted Width 25' m Transect Length 20' m  
74.7% DO  
Site: 45.57115 -111.07365

Chemistry Lab Information:		
Lab Samples Submitted to: Energy Lab	Account #: H704	Term Contract Number: n/a
Invoice Contact: Atkins / Gary Ingman / 820 N Montana Ave / 406-437-9244 project: <u>100023347 task 9</u>		
Contact Name & Phone: Darrin Kron / 406-444-4765	EDD <input checked="" type="checkbox"/> Format: MT-eWQX Compatible	
1) Relinquished By & Date/Time: <u>[Signature]</u> <u>9/26/12 15:30</u>	1) Shipped By: Hand <input type="checkbox"/> FedEx/UPS <input type="checkbox"/> USPS <input type="checkbox"/>	1) Received By & Date/Time: <u>[Signature]</u> <u>9/27/12 15:30</u>
2) Relinquished By & Date/Time: <u>[Signature]</u> <u>9/27/12 16:10</u>	2) Shipped By: Hand <input checked="" type="checkbox"/> FedEx/UPS <input type="checkbox"/> USPS <input type="checkbox"/>	2) Received By & Date/Time: <u>[Signature]</u> <u>9/27/12 16:10</u>

Lab Use Only - Delivery Temperature: Wet Ice 0.6 °C Dry Ice \_\_\_\_\_ °C

Rev. 5/8/2012

U2296 --

## Site Visit Form

(One Station per page)

Project ID: TOB-HYLT-YAAK-2012

H12090484-006

Date: 9/25/12 Time: 13:00 Personnel: J. Dunn, M. Johnson  
 Waterbody: Hyalite Creek HY06a Location: just u/s from Hyalite Reservoir  
 Station ID: \_\_\_\_\_ Visit #: 3 HUC: 10020008 County: Gallatin  
 Latitude: 45.4678 Longitude: -110.9551 Lat/Long Verified? ☐ By: \_\_\_\_\_  
 Elevation: 6766 (ft) m Geo Method: GPS Other: \_\_\_\_\_ Datum: NAD27 NAD83 WGS84

Samples Collected:	Sample ID:	Sample Collection Information/Preservation:
Water <input checked="" type="checkbox"/>	<u>U2296-W</u>	<u>GRAB</u> EWI
Analysis: <u>TPN, TSS</u>		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL <u>(Ice)</u> Frozen <u>(None)</u>
Analysis: <u>TP, NO<sub>2</sub>+NO<sub>3</sub></u>		Preserved: HNO <sub>3</sub> <u>H<sub>2</sub>SO<sub>4</sub></u> H <sub>3</sub> PO <sub>4</sub> HCL <u>(Ice)</u> Frozen None
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen None
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen None
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen None
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen None
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen None
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen None
Sediment <input type="checkbox"/>		SED-1
Analysis:		Preserved: None Other:
Benthic Chl-a <input type="checkbox"/>	<u>visual est. &lt; 50 mg/m<sup>2</sup></u>	Sample Method: C=Core H=Hoop T=Template N=None
Composite at Lab <input type="checkbox"/>	Ash-Free Dry Weight <input type="checkbox"/>	Sample Location: R=Right C=Center L=Left
Transect: A - B - C - D - E - F - G - H - I - J - K -		
Phytoplankton Chl-a <input type="checkbox"/>		D1 Filtered: _____ mL D2 Filtered: _____ mL
Phytoplankton CNP <input type="checkbox"/>		D1 Filtered: _____ mL D2 Filtered: _____ mL
Algae <input checked="" type="checkbox"/>	<u>U2296-P</u>	<u>PERI-1-MOD</u> PERI-1 OTHER:
Macroinvertebrates <input checked="" type="checkbox"/>	<u>U2296-M</u>	<u>MAC-R-500</u> HESS # of Jars:

Field Measurements:	Time: <u>13:00</u> am (pm)	Field Assessments:
Water Temp: <u>7.47</u> (°C) °F	Air Temp: <u>26.5</u> °C (°F)	Field Forms: Fish Cover Form <input type="checkbox"/> Photographs <input checked="" type="checkbox"/>
Bar. Pressure: <u>595.9</u> mm/Hg	SC: <u>.058</u> uS/cm	Aquatic Plant Tracking Form <input type="checkbox"/> Rosgen Form <input type="checkbox"/>
pH: <u>7.94</u> DO: <u>9.46</u> mg/L	Turbidity: _____ NTU	NRCS Form <input type="checkbox"/> EMAP Forms <input type="checkbox"/> Summary Form <input type="checkbox"/>
Turbidity: Clear <input checked="" type="checkbox"/> Slight <input type="checkbox"/> Turbid <input type="checkbox"/> Opaque <input type="checkbox"/>		Channel Cross-Section <input type="checkbox"/> Total Discharge <input checked="" type="checkbox"/>
Flow: _____ cfs (Dry Bed <input type="checkbox"/> No Measurable Flow <input type="checkbox"/> )		Data Loggers: Temp <input type="checkbox"/> YSI <input type="checkbox"/> TruTrack <input type="checkbox"/> DOT <input type="checkbox"/>
Meter <input checked="" type="checkbox"/> Doppler <input type="checkbox"/> Float <input type="checkbox"/> Gage <input type="checkbox"/> Visual Est. <input type="checkbox"/>		AquaRods <input type="checkbox"/> Weather Station <input type="checkbox"/> Surveyor <input type="checkbox"/>

Comments: Only Transect F ☐ Total Site Length 800' m Average Wetted Width 20' m Transect Length 80' m  
78.89 Do wetted widths: 18, 20, 23, 19, 19 = 19.8 → 20

Chemistry Lab Information:		
Lab Samples Submitted to: Energy Lab	Account #: H704	Term Contract Number: n/a
Invoice Contact: Atkins / Gary Ingman / 820 N Montana Ave / 406-437-9244 project: <u>100023347 task 9</u>		
Contact Name & Phone: Darrin Kron / 406-444-4765	EDD <input checked="" type="checkbox"/> Format: MT-eWQX Compatible	
1) Relinquished By & Date/Time: <u>John Dunn 9/26/12 15:30</u>	1) Shipped By: Hand <input type="checkbox"/> FedEx/UPS <input type="checkbox"/> USPS <input type="checkbox"/>	1) Received By & Date/Time: <u>John Dunn 9/27/12 15:30</u>
2) Relinquished By & Date/Time: <u>John Dunn 9/27/12 16:10</u>	2) Shipped By: Hand <input checked="" type="checkbox"/> FedEx/UPS <input type="checkbox"/> USPS <input type="checkbox"/>	2) Received By & Date/Time: <u>Tracy Wash 9/27/12 16:10</u>
Lab Use Only - Delivery Temperature: Wet Ice <u>0.6</u> °C Dry Ice _____ °C		

Rev. 5/8/2012

U2297-\_\_

## Site Visit Form

(One Station per page)

Project ID: TOB-HYLT-YAAK-2012

H12090484-007

Date: 9/25/12 Time: 15:30 Personnel: J. Dunn, M. Johnson  
 Waterbody: Hyalite Creek HY08 Location: West Fk Hyalite Cr Inlet  
 Station ID: \_\_\_\_\_ Visit #: 3 HUC: 10020008 County: Gallatin  
 Latitude: 45.4522 Longitude: -110.9594 Lat/Long Verified? ☐ By: \_\_\_\_\_  
 Elevation: 6882 (ft) m Geo Method: GPS Other: \_\_\_\_\_ Datum: NAD27 NAD83 WGS84

Samples Collected:	Sample ID:	Sample Collection Information/Preservation:
Water <input checked="" type="checkbox"/>	<u>U2297-W</u>	<u>GRAB</u> EWI
Analysis: <u>TPN, TSS</u>		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL <u>(ice)</u> Frozen <u>(None)</u>
Analysis: <u>TP, NO<sub>2</sub> + NO<sub>3</sub></u>		Preserved: HNO <sub>3</sub> <u>(H<sub>2</sub>SO<sub>4</sub>)</u> H <sub>3</sub> PO <sub>4</sub> HCL <u>(ice)</u> Frozen None
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen None
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen None
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen None
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen None
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen None
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen None
Sediment <input type="checkbox"/>		SED-1
Analysis:		Preserved: None Other:
Benthic Chl-a <input type="checkbox"/>	<u>Visual est &lt; 50 mg/m<sup>2</sup></u>	Sample Method: C=Core H=Hoop T=Template N=None
Composite at Lab <input type="checkbox"/>	Ash-Free Dry Weight <input type="checkbox"/>	Sample Location: R=Right C=Center L=Left
Transect: A - B - C - D - E - F - G - H - I - J - K -		
Phytoplankton Chl-a <input type="checkbox"/>		D1 Filtered: _____ mL D2 Filtered: _____ mL
Phytoplankton CNP <input type="checkbox"/>		D1 Filtered: _____ mL D2 Filtered: _____ mL
Algae <input checked="" type="checkbox"/>	<u>U2297-P</u>	<u>PERI-1-MOD</u> PERI-1 OTHER:
Macroinvertebrates <input checked="" type="checkbox"/>	<u>U2297-M</u>	<u>MAC-R-500</u> HESS # of Jars:

Field Measurements:	Time: <u>15:30</u> am <u>(pm)</u>	Field Assessments:
Water Temp: <u>7.64</u> °C °F	Air Temp: <u>~65</u> °C °F	Field Forms: Fish Cover Form <input type="checkbox"/> Photographs <input checked="" type="checkbox"/>
Bar. Pressure: <u>592.6</u> mm/Hg	SC: <u>0.035</u> uS/cm	Aquatic Plant Tracking Form <input type="checkbox"/> Rosgen Form <input type="checkbox"/>
pH: <u>7.59</u> DO: <u>0.65</u> mg/L	Turbidity: _____ NTU	NRCS Form <input type="checkbox"/> EMAP Forms <input type="checkbox"/> Summary Form <input type="checkbox"/>
Turbidity: Clear <input checked="" type="checkbox"/> Slight <input type="checkbox"/> Turbid <input type="checkbox"/> Opaque <input type="checkbox"/>		Channel Cross-Section <input type="checkbox"/> Total Discharge <input checked="" type="checkbox"/>
Flow: _____ cfs (Dry Bed <input type="checkbox"/> No Measurable Flow <input type="checkbox"/> )		Data Loggers: Temp <input type="checkbox"/> YSI <input type="checkbox"/> TruTrack <input type="checkbox"/> DOT <input type="checkbox"/>
Meter <input checked="" type="checkbox"/> Doppler <input type="checkbox"/> Float <input type="checkbox"/> Gage <input type="checkbox"/> Visual Est. <input type="checkbox"/>		AquaRods <input type="checkbox"/> Weather Station <input type="checkbox"/> Surveyor <input type="checkbox"/>

Comments: Only Transect F ☐ Total Site Length 600m Average Wetted Width 15' Transect Length 60'  
 Do  $\Delta$  = 71.5 wet width = 11, 11, 16, 20, 21 = 16.4 → ~15'  
 F side: 45.45057 -110.96078

Chemistry Lab Information:		
Lab Samples Submitted to: Energy Lab	Account #: H704	Term Contract Number: n/a
Invoice Contact: Atkins / Gary Ingman / 820 N Montana Ave / 406-437-9244		project: <u>100023347 task 9</u>
Contact Name & Phone: Darrin Kron / 406-444-4765		EDD <input checked="" type="checkbox"/> Format: MT-eWQX Compatible
1) Relinquished By & Date/Time: <u>J. Dunn 9/26/12 15:30</u>	1) Shipped By: Hand <input type="checkbox"/> FedEx/UPS <input type="checkbox"/> USPS <input type="checkbox"/>	1) Received By & Date/Time: <u>[Signature] 9/27/12 15:30</u>
2) Relinquished By & Date/Time: <u>[Signature] 9/27/12 16:10</u>	2) Shipped By: Hand <input checked="" type="checkbox"/> FedEx/UPS <input type="checkbox"/> USPS <input type="checkbox"/>	2) Received By & Date/Time: <u>[Signature] 9/28/12</u>

Lab Use Only - Delivery Temperature: Wet Ice 0.6 °C Dry Ice \_\_\_\_\_ °C

Rev. 5/8/2012

U2298 -

## Site Visit Form

(One Station per page)

Project ID: TOB-HYLT-YAAK-2012

H12090484-008

Date: 9/26/12 Time: 11:30 Personnel: J. Dunn, M. Johnson  
 Waterbody: Hyalite Creek M05HYLTC01 Location: 400 yards above trailhead to Hyalite Lake  
 Station ID: \_\_\_\_\_ Visit #: 3 HUC: 10020008 County: Gallatin  
 Latitude: 45.4417 Longitude: -110.9621 Lat/Long Verified? ☐ By: \_\_\_\_\_  
 Elevation: 7077 (ft) m Geo Method: GPS Other: \_\_\_\_\_ Datum: NAD27 NAD83 WGS84

Samples Collected:	Sample ID:	Sample Collection Information/Preservation:
Water <input checked="" type="checkbox"/>	<u>U2298-W</u>	<u>GRAB</u> EWI
Analysis: <u>TPN, TSS</u>		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL <u>Ice</u> Frozen <u>None</u>
Analysis: <u>TP, NO<sub>2</sub> + NO<sub>3</sub></u>		Preserved: HNO <sub>3</sub> <u>H<sub>2</sub>SO<sub>4</sub></u> H <sub>3</sub> PO <sub>4</sub> HCL <u>Ice</u> Frozen <u>None</u>
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen <u>None</u>
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen <u>None</u>
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen <u>None</u>
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen <u>None</u>
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen <u>None</u>
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen <u>None</u>
Sediment <input type="checkbox"/>		SED-1
Analysis:		Preserved: <u>None</u> Other: _____
Benthic Chl-a <input type="checkbox"/>	<u>Visual est. &lt; 50 mg/m<sup>2</sup></u>	Sample Method: C=Core H=Hoop T=Template N=None
Composite at Lab <input type="checkbox"/>	Ash-Free Dry Weight <input type="checkbox"/>	Sample Location: R=Right C=Center L=Left
Transect: A - B - C - D - E - F - G - H - I - J - K -		
Phytoplankton Chl-a <input type="checkbox"/>		D1 Filtered: _____ mL D2 Filtered: _____ mL
Phytoplankton CNP <input type="checkbox"/>		D1 Filtered: _____ mL D2 Filtered: _____ mL
Algae <input checked="" type="checkbox"/>	<u>U2298-P</u>	<u>PERI-1-MOD</u> PERI-1 OTHER: _____
Macroinvertebrates <input checked="" type="checkbox"/>	<u>U2298-M</u>	<u>MAC-R-500</u> HESS # of Jars: _____

Field Measurements:	Time: <u>11:30</u> <u>am</u> pm	Field Assessments:
Water Temp: <u>6.03</u> °C °F	Air Temp: <u>~55</u> °C °F	Field Forms: Fish Cover Form <input type="checkbox"/> Photographs <input checked="" type="checkbox"/>
Bar. Pressure: <u>591.1</u> mm/Hg	SC: <u>.033</u> uS/cm	Aquatic Plant Tracking Form <input type="checkbox"/> Rosgen Form <input type="checkbox"/>
pH: <u>7.45</u> DO: <u>8.94</u> mg/L Turbidity: _____ NTU		NRCS Form <input type="checkbox"/> EMAP Forms <input type="checkbox"/> Summary Form <input type="checkbox"/>
Turbidity: Clear <input checked="" type="checkbox"/> Slight <input type="checkbox"/> Turbid <input type="checkbox"/> Opaque <input type="checkbox"/>		Channel Cross-Section <input type="checkbox"/> Total Discharge <input checked="" type="checkbox"/>
Flow: _____ cfs (Dry Bed <input type="checkbox"/> No Measurable Flow <input type="checkbox"/> )		Data Loggers: Temp <input type="checkbox"/> YSI <input type="checkbox"/> TruTrack <input type="checkbox"/> DOT <input type="checkbox"/>
Meter <input checked="" type="checkbox"/> Doppler <input type="checkbox"/> Float <input type="checkbox"/> Gage <input type="checkbox"/> Visual Est. <input type="checkbox"/>		AquaRods <input type="checkbox"/> Weather Station <input type="checkbox"/> Surveyor <input type="checkbox"/>

Comments: Only Transect F ☐ Total Site Length 480' Average Wetted Width 12' Transect Length 48'  
71.990 DO wetted width: 8, 11, 15, 11, 12 = 11.4 → 12  
F site: 45.44280 -110.96159

Chemistry Lab Information:		
Lab Samples Submitted to: Energy Lab	Account #: H704	Term Contract Number: n/a
Invoice Contact: Atkins / Gary Ingman / 820 N Montana Ave / 406-437-9244		project: <u>100023347 task 9</u>
Contact Name & Phone: Darrin Kron / 406-444-4765		EDD <input checked="" type="checkbox"/> Format: MT-eWQX Compatible
1) Relinquished By & Date/Time: <u>[Signature]</u> <u>9/27/12 15:30</u>	1) Shipped By: <u>[Signature]</u>	1) Received By & Date/Time: <u>[Signature]</u> <u>9/27/12 15:30</u>
2) Relinquished By & Date/Time: <u>[Signature]</u> <u>9/27/12 16:10</u>	2) Shipped By: <u>[Signature]</u>	2) Received By & Date/Time: <u>[Signature]</u> <u>9/27/12 16:10</u>

Lab Use Only - Delivery Temperature: Wet Ice 0.6 °C Dry Ice \_\_\_\_\_ °C

Rev. 5/8/2012

U2299 -

## Site Visit Form

(One Station per page)

Project ID: TOB-HYLT-YAAK-2012

H12090484-609

Date: 9/26/12 Time: 9:00 Personnel: J. Dunn, M. Johnson  
 Waterbody: Hyalite Creek HY09 Location: approx 1 mile u/s of MOSHYLT001  
 Station ID: \_\_\_\_\_ Visit #: 3 HUC: 10020008 County: Gallatin  
 Latitude: 45.4325 Longitude: -110.9633 Lat/Long Verified? ☐ By: \_\_\_\_\_  
 Elevation: 7248 (ft) m Geo Method: GPS Other: \_\_\_\_\_ Datum: NAD27 NAD83 WGS84

Samples Collected:	Sample ID:	Sample Collection Information/Preservation:
Water	<input checked="" type="checkbox"/> U2299-W	<u>GRAB</u> EWI
Analysis: <u>TPN, TSS</u>		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL <u>Ice</u> Frozen <u>None</u>
Analysis: <u>TP, NO<sub>2</sub>+NO<sub>3</sub></u>		Preserved: HNO <sub>3</sub> <u>H<sub>2</sub>SO<sub>4</sub></u> H <sub>3</sub> PO <sub>4</sub> HCL <u>Ice</u> Frozen None
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen None
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen None
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen None
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen None
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen None
Analysis:		Preserved: HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>3</sub> PO <sub>4</sub> HCL Ice Frozen None
Sediment	<input type="checkbox"/>	SED-1
Analysis:		Preserved: None Other:
Benthic Chl-a	<input type="checkbox"/> <u>visual est &lt; 50mg/m<sup>2</sup></u>	Sample Method: C=Core H=Hoop T=Template N=None
Composite at Lab <input type="checkbox"/> Ash-Free Dry Weight <input type="checkbox"/>		Sample Location: R=Right C=Center L=Left
Transect: A - B - C - D - E - F - G - H - I - J - K -		
Phytoplankton Chl-a	<input type="checkbox"/>	D1 Filtered: _____ mL D2 Filtered: _____ mL
Phytoplankton CNP	<input type="checkbox"/>	D1 Filtered: _____ mL D2 Filtered: _____ mL
Algae	<input checked="" type="checkbox"/> U2299-P	<u>PERI-T-MOD</u> PERI-1 OTHER:
Macroinvertebrates	<input checked="" type="checkbox"/> U2299-M	<u>MAC-R-500</u> HESS # of Jars:

Field Measurements:	Time: <u>9:00</u> (am) pm	Field Assessments:
Water Temp: <u>5.68</u> °C °F	Air Temp: <u>~50</u> °C °F	Field Forms: Fish Cover Form <input type="checkbox"/> Photographs <input checked="" type="checkbox"/>
Bar. Pressure: <u>586.2</u> mm/Hg	SC: <u>.031</u> uS/cm	Aquatic Plant Tracking Form <input type="checkbox"/> Rosgen Form <input type="checkbox"/>
pH: <u>7.31</u> DO: <u>7.53</u> mg/L	Turbidity: _____ NTU	NRCS Form <input type="checkbox"/> EMAP Forms <input type="checkbox"/> Summary Form <input type="checkbox"/>
Turbidity: Clear <input checked="" type="checkbox"/> Slight <input type="checkbox"/> Turbid <input type="checkbox"/> Opaque <input type="checkbox"/>		Channel Cross-Section <input type="checkbox"/> Total Discharge <input checked="" type="checkbox"/>
Flow: _____ cfs (Dry Bed <input type="checkbox"/> No Measurable Flow <input type="checkbox"/> )		Data Loggers: Temp <input type="checkbox"/> YSI <input type="checkbox"/> TruTrack <input type="checkbox"/> DOT <input type="checkbox"/>
Meter <input checked="" type="checkbox"/> Doppler <input type="checkbox"/> Float <input type="checkbox"/> Gage <input type="checkbox"/> Visual Est. <input type="checkbox"/>		AquaRods <input type="checkbox"/> Weather Station <input type="checkbox"/> Surveyor <input type="checkbox"/>

Comments: Only Transect F ☐ Total Site Length 600m Average Wetted Width 15m Transect Length 60m  
60.09m DO wetted width: 11.5, 19, 20, 15, 14 = 15.9 → ~15  
 F site:

Chemistry Lab Information:		
Lab Samples Submitted to: Energy Lab	Account #: H704	Term Contract Number: n/a
Invoice Contact: Atkins / Gary Ingman / 820 N Montana Ave / 406-437-9244		project: <u>100023347 task 9</u>
Contact Name & Phone: Darrin Kron / 406-444-4765		EDD <input checked="" type="checkbox"/> Format: MT-eWQX Compatible
1) Relinquished By & Date/Time: <u>J. Dunn - 9/26/12 10:30</u>	1) Shipped By: Hand <input type="checkbox"/> FedEx/UPS <input type="checkbox"/> USPS <input type="checkbox"/>	1) Received By & Date/Time: <u>Stu B</u> <u>9/27/12</u> <u>15:30</u>
2) Relinquished By & Date/Time: <u>Stu B</u> <u>9/27/12</u> <u>16:00</u>	2) Shipped By: Hand <input checked="" type="checkbox"/> FedEx/UPS <input type="checkbox"/> USPS <input type="checkbox"/>	2) Received By & Date/Time: <u>Tracy Kirsch</u> <u>9/27/12</u> <u>16:10</u>
Lab Use Only - Delivery Temperature: Wet Ice <u>0.6</u> °C °F Dry Ice _____ °C		

Rev. 5/8/2012